

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	102	concurrent\$2 with scan\$4 with (gather\$3 monitor\$3)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:23
L2	0	concurrent\$2 with scan\$4 with (gather\$3 monitor\$3) with (directory folder)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:22
L3	0	concurrent\$2 with scan\$4 with (gather\$3 monitor\$3) same (directory folder)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:22
L4	189	concurrent\$2 with scan\$4 with (gather\$3 monitor\$3 collect\$3)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:24
L5	0	concurrent\$2 with scan\$4 with (gather\$3 monitor\$3 collect\$3 summariz\$3) with (directory folder)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:24
L6	0	concurrent\$2 with scan\$4 with (gather\$3 monitor\$3 collect\$3 summariz\$3) same (directory folder)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:24
L7	1	(simultaneous\$2 concurrent\$2) with scan\$4 with (gather\$3 monitor\$3 collect\$3 summariz\$3) same (directory folder)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:26
L8	447	scan\$4 with (gather\$3 monitor\$3 collect\$3 summariz\$3) same (directory folder)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:27
L9	148	scan\$4 with (gather\$3 monitor\$3 collect\$3 summariz\$3) with (directory folder)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:28

## EAST Search History

L10	1	scan\$4 with (gather\$3 monitor\$3 collect\$3) with (directory folder) with (summar\$5 combining)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:32
L11	1	scan\$4 with (gather\$3 monitor\$3 collect\$3) with (directory folder) same (summar\$5 combin\$3)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:33
L12	12	(search\$3 scan\$4) with (compil\$3 gather\$3 monitor\$3 collect\$3) with (directory folder) same (summar\$5 combin\$3)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:55
L13	802	(search\$3 scan\$4 compil\$3 gather\$3 monitor\$3 collect\$3) with (directory folder) same (summar\$5 combin\$3)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:34
L14	275	(search\$3 scan\$4 compil\$3 gather\$3 monitor\$3 collect\$3) with (directory folder) with (summar\$5 combin\$3)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:34
L16	124	(search\$3 scan\$4) with (compil\$3 gather\$3 monitor\$3 collect\$3) with (directory file folder) same (summar\$5 combin\$3)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:57
L17	1	(search\$3 scan\$4) with (compil\$3 gather\$3 monitor\$3 collect\$3) with (directory file folder) same (summar\$5 combin\$3) with updat\$3	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:57
L18	1	(search\$3 scan\$4) with (compil\$3 gather\$3 monitor\$3 collect\$3) with (directory file folder) same (summar\$5 combin\$3) with (updat\$3 refresh\$3)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:58
L19	84	(search\$3 scan\$4) with (compil\$3 gather\$3 monitor\$3 collect\$3) with (directory file folder) with (updat\$3 refresh\$3)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:59
S1	57	file adj walk	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/22 14:14

## EAST Search History

S2	1	file adj walk with server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/12 18:35
S3	4	file adj walk same server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/12 18:36
S4	4	file adj walk same (server directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/12 18:36
S5	8277	((file adj walk) or scan) same (server directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/12 18:37
S6	3856	((file adj walk) or scan) with (server directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/12 18:37
S7	4440	(scan search) near2 (file directory) with (statistics information data)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 09:31
S8	183	(scan\$3 search\$3) near2 (file directory) with (collect\$3 gather\$3) near2(statistics information data)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:07
S9	1	(scan\$3 search\$3) near2 (file directory) with (collect\$3 gather\$3) near2 (statistics information data) with agent	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:07
S10	11	(scan\$3 search\$3) near2 (file directory) with (collect\$3 gather\$3) near2 (statistics information data) with summary	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:12
S11	15	(scan\$3 search\$3 compil\$3) near2 (file directory) with (collect\$3 gather\$3) near2 (statistics information data) with summary	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:18

## EAST Search History

S12	1	(scan\$3 search\$3 compil\$3) near (file directory) near2 (statistics information data) with summary	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:19
S13	1713	(scan\$3 search\$3 compil\$3) near (file directory) near2 (statistics information data)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:21
S14	13	(scan\$3 search\$3 compil\$3) near (file directory) near2 (statistics information data) same summary	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:24
S15	3	summariz\$5 with directory near information	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:24
S16	3	summariz\$5 with directory near (information statistics)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:26
S17	98	(accumulat\$3 summariz\$5) near2 (directory file) near (information statistics)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:44
S18	261	determin\$3 with number with files with directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:30
S19	32	determin\$3 with number near2 files near2 directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:34
S20	278	monitor with storage near2 server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:32
S21	3	monitor with storage near2 server same (GUI MMA)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:32

## EAST Search History

S23	1005	server near2 management near2 application	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:45
S24	90	server near2 management near2 application same (storage with (statistics information))	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 10:50
S25	151	server near2 management near2 application same (stor\$3 with (statistics information))	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 11:55
S26	11	(contents near2 directory) same (characteristic near2 file)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 13:39
S27	232	(contents near2 directory) same (information near2 file)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 13:40
S28	41	(contents near2 directory) same (information near2 file) with (size date location)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 13:45
S29	0	server storage statistics administrator	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2006/09/13 13:46
S30	62	server storage statistics administrator	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	SAME	ON	2006/09/13 14:08
S31	72	server storage (statistics or file adj information or directory adj informtion) administrator	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	SAME	ON	2006/09/13 14:51
S32	12	(count\$3 determin\$3) adj number adj2 (files adj2 directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 14:59

## EAST Search History

S33	421	(count\$3 determin\$3) adj number adj2 (files child\$3 node adj2 directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 15:24
S34	9675	filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 15:24
S35	9704	netapp filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 15:24
S36	67	netapp with filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 15:26
S37	71	network adj attached adj storage with filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 15:27
S38	11599	("multi-appliance management application") or MMA	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 16:38
S39	1	("multi-appliance management application") or MMA with filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 16:38
S40	1	("multi-appliance management application") or MMA same filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 16:38
S41	241	("multi-appliance management application") or MMA same (filer or NAS)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 16:38
S42	241	("multi-appliance management application") or MMA same NAS	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 16:39

## EAST Search History

S43	79	("multi-appliance management application") or MMA with NAS	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 16:59
S44	2	analyz\$3 with file adj data with directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:06
S45	168	file adj thread directory adj thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:07
S46	9	file adj thread and directory adj thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:13
S47	1271	file adj storage with manage\$4	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:40
S48	5	file adj storage with manage\$4 same scan	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:14
S49	167	file adj storage with manage\$4 same number	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:16
S50	21	file adj storage with manage\$4 same number near (file nodes)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:22
S51	243	directory file count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2006/09/13 17:22
S52	15	store directory file count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2006/09/13 17:22

## EAST Search History

S53	72	stor\$3 directory file count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2006/09/13 17:36
S54	4	stor\$3 directory node count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2006/09/13 17:38
S55	3873	(identify\$3 or stor\$3) directory structure	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2006/09/13 17:39
S56	814	file adj storage with management	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:40
S57	101	file adj storage adj management	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:40
S58	7	file adj storage adj management with server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:40
S59	13	file adj storage adj management same server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/13 17:41
S60	1	("6346954").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/09/14 09:53
S61	3	scan\$4 near2 directory with thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 09:57
S62	23	scan\$4 near2 file with thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:00



## EAST Search History

S63	18	scan\$4 near2 node with thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:00
S64	0	scan\$4 near2 child adj node with thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:34
S65	18	scan\$4 near2 node with thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:00
S66	1	"multi-appliance management application"	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:07
S68	1	multi-appliance near management near application	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:08
S69	1	multi-appliance near management near (application program)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:11
S70	19267	management near (application program)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:12
S71	9080	management adj application	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:12
S72	28	management adj application same storage adj server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:13
S73	8	scan\$4 near2 child adj node	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:37

## EAST Search History

S74	109	(count\$3 determin\$3) with number adj2 child adj2 nodes	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:22
S75	41	(count\$3 determin\$3) adj2 number adj2 child adj2 nodes	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:08
S76	0	(count\$3 determin\$3) adj2 number adj2 child adj2 nodes with directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:38
S77	3	(count\$3 determin\$3) adj2 number adj2 child adj2 nodes with server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 10:38
S78	1	(count\$3 determin\$3) adj2 number adj2 (nodes items) adj2 directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:09
S79	15	(count\$3 determin\$3) adj2 number adj2 (nodes files items) adj2 directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:10
S80	15	(count\$3 determin\$3) adj2 number adj2 (nodes files child\$3 items) adj2 directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:16
S81	13	(count\$3 determin\$3) adj2 number adj2 (nodes files child\$3 items) adj2 server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:17
S82	3260	reference adj count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:41
S83	534	(subtracting decrement\$3 reduc\$3) near2 reference adj count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:42

## EAST Search History

S84	69	(subtracting decrement\$3 reduc\$3) near2 reference adj count same server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:47
S85	3	(subtracting decrement\$3 reduc\$3) near2 count same server adj (node item child children)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:50
S86	1	(subtracting decrement\$3 reduc\$3) near2 count same directory adj (node item child children)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:51
S87	259	(subtracting decrement\$3 reduc\$3) near2 count near2 (node item child children)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:52
S88	1	(subtracting decrement\$3 reduc\$3) near2 count near2 (node item child children) same directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 11:53
S89	58	(subtracting decrement\$3 reduc\$3) near2 count near2 (node item child children) and directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:16
S90	0	scan directory increment count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2006/09/14 13:17
S91	0	(scan near directory) same (increment near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:17
S92	208	(scan search near directory) same (increment near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:18
S93	86	(scan search near directory) with (increment near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:19

## EAST Search History

S94	0	((scan or search) near directory) with (increment near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:19
S95	129	(scan search near directory) with ((increment or increase) near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:19
S96	0	((scan or search) near directory) with ((increment increase) near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:19
S97	11	(count\$3 determin\$3) with number adj2 child adj2 nodes with (storage server system folder directory)\	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:22
S98	11	(count\$3 determin\$3) with number adj2 child adj2 nodes with (storage server system folder directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:23
S99	441	(count\$3 determin\$3) with number adj2 nodes with (storage server system folder directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:44
S100	143	(count\$3 determin\$3) adj2 number adj2 nodes with (storage server system folder directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:44
S101	19	(count\$3 determin\$3) adj2 number adj2 nodes adj2 (storage server system folder directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 13:44
S102	12	scan\$4 adj3 server adj3 directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 14:00
S103	5	scan\$4 adj3 directory adj3 nodes	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 14:00

## EAST Search History

S10 4	0	(2002/0049749).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/09/14 14:31
S10 5	1	("20020049749").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/09/14 16:00
S10 6	74	directory near2 thread.	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 16:01
S10 7	3	directory near2 thread with scan	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 16:01
S10 8	3	directory near2 thread with read	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 16:04
S10 9	82	file near2 thread with read	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 16:08
S11 0	6	file near2 thread with scan	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 16:04
S11 1	19	directory adj thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 16:12
S11 2	15	thread with scanning with server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 16:14
S11 3	31	thread with scan\$4 with server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 16:15

## EAST Search History

S11 4	72	thread with scan\$4 with storage	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2006/09/14 16:16
S11 5	61	file adj walk	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S11 6	1	file adj walk with server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S11 7	4	file adj walk same server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S11 8	4	file adj walk same (server directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S11 9	9353	((file adj walk) or scan) same (server directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S12 0	4392	((file adj walk) or scan) with (server directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S12 1	4924	(scan search) near2 (file directory) with (statistics information data)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S12 2	258	(scan\$3 search\$3) near2 (file directory) with (collect\$3 gather\$3) near2(statistics information data)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S12 3	1	(scan\$3 search\$3) near2 (file directory) with (collect\$3 gather\$3) near2 (statistics information data) with agent	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51

## EAST Search History

S12 4	12	(scan\$3 search\$3) near2 (file directory) with (collect\$3 gather\$3) near2 (statistics information data) with summary	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S12 5	16	(scan\$3 search\$3 compil\$3) near2 (file directory) with (collect\$3 gather\$3) near2 (statistics information data) with summary	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S12 6	1956	(scan\$3 search\$3 compil\$3) near (file directory) near2 (statistics information data)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S12 7	3	(scan\$3 search\$3 compil\$3) near (file directory) near2 (statistics information data) with summary	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S12 8	15	(scan\$3 search\$3 compil\$3) near (file directory) near2 (statistics information data) same summary	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S12 9	4	summariz\$5 with directory near information	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S13 0	4	summariz\$5 with directory near (information statistics)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S13 1	289	determin\$3 with number with files with directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S13 2	314	monitor with storage near2 server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S13 3	6	monitor with storage near2 server same (GUI MMA)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51

## EAST Search History

S13 4	36	determin\$3 with number near2 files near2 directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S13 5	102	(accumulat\$3 summariz\$5) near2 (directory file) near (information statistics)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S13 6	1132	server near2 management near2 application	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S13 7	100	server near2 management near2 application same (storage with (statistics information))	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S13 8	170	server near2 management near2 application same (stor\$3 with (statistics information))	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S13 9	11	(contents near2 directory) same (characteristic near2 file)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S14 0	293	(contents near2 directory) same (information near2 file)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S14 1	44	(contents near2 directory) same (information near2 file) with (size date location)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S14 2	0	server storage statistics administrator	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2007/03/16 17:51
S14 3	65	server storage statistics administrator	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	SAME	ON	2007/03/16 17:51



## EAST Search History

S14 4	82	server storage (statistics or file adj information or directory adj informtion) administrator	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	SAME	ON	2007/03/16 17:51
S14 5	13	(count\$3 determin\$3) adj number adj2 (files adj2 directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S14 6	460	(count\$3 determin\$3) adj number adj2 (files child\$3 node adj2 directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S14 7	10382	filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S14 8	10419	netapp filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S14 9	77	netapp with filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S15 0	82	network adj attached adj storage with filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S15 1	12174	("multi-appliance management application") or MMA	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S15 2	2	("multi-appliance management application") or MMA with filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S15 3	2	("multi-appliance management application") or MMA same filer	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51

## EAST Search History

S15 4	254	("multi-appliance management application") or MMA same (filer or NAS)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S15 5	253	("multi-appliance management application") or MMA same NAS	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S15 6	80	("multi-appliance management application") or MMA with NAS	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S15 7	2	analyz\$3 with file adj data with directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S15 8	180	file adj thread directory adj thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S15 9	9	file adj thread and directory adj thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S16 0	1462	file adj storage with manage\$4	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S16 1	6	file adj storage with manage\$4 same scan	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S16 2	198	file adj storage with manage\$4 same number	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S16 3	26	file adj storage with manage\$4 same number near (file nodes)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51

## EAST Search History

S16 4	282	directory file count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2007/03/16 17:51
S16 5	18	store directory file count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2007/03/16 17:51
S16 6	88	stor\$3 directory file count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2007/03/16 17:51
S16 7	4	stor\$3 directory node count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2007/03/16 17:51
S16 8	4385	(identify\$3 or stor\$3) directory structure	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2007/03/16 17:51
S16 9	921	file adj storage with management	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S17 0	117	file adj storage adj management	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S17 1	10	file adj storage adj management with server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S17 2	17	file adj storage adj management same server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S17 3	1	("6346954").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2007/03/16 17:51

## EAST Search History

S17 4	5	scan\$4 near2 directory with thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S17 5	27	scan\$4 near2 file with thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S17 6	18	scan\$4 near2 node with thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S17 7	0	scan\$4 near2 child adj node with thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S17 8	18	scan\$4 near2 node with thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S17 9	1	"multi-appliance management application"	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S18 0	1	multi-appliance near management near application	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S18 1	1	multi-appliance near management near (application program)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S18 2	21495	management near (application program)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S18 3	10207	management adj application	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51

## EAST Search History

S18 4	33	management adj application same storage adj server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S18 5	8	scan\$4 near2 child adj node	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S18 6	118	(count\$3 determin\$3) with number adj2 child adj2 nodes	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S18 7	43	(count\$3 determin\$3) adj2 number adj2 child adj2 nodes	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S18 8	0	(count\$3 determin\$3) adj2 number adj2 child adj2 nodes with directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S18 9	3	(count\$3 determin\$3) adj2 number adj2 child adj2 nodes with server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S19 0	1	(count\$3 determin\$3) adj2 number adj2 (nodes items) adj2 directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S19 1	16	(count\$3 determin\$3) adj2 number adj2 (nodes files items) adj2 directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S19 2	16	(count\$3 determin\$3) adj2 number adj2 (nodes files child\$3 items) adj2 directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S19 3	16	(count\$3 determin\$3) adj2 number adj2 (nodes files child\$3 items) adj2 server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51

## EAST Search History

S19 4	3464	reference adj count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S19 5	569	(subtracting decrement\$3 reduc\$3) near2 reference adj count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S19 6	71	(subtracting decrement\$3 reduc\$3) near2 reference adj count same server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S19 7	3	(subtracting decrement\$3 reduc\$3) near2 count same server adj (node item child children)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S19 8	1	(subtracting decrement\$3 reduc\$3) near2 count same directory adj (node item child children)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S19 9	273	(subtracting decrement\$3 reduc\$3) near2 count near2 (node item child children)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S20 0	2	(subtracting decrement\$3 reduc\$3) near2 count near2 (node item child children) same directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S20 1	63	(subtracting decrement\$3 reduc\$3) near2 count near2 (node item child children) and directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:51
S20 2	0	scan directory increment count	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	WITH	ON	2007/03/16 17:51
S20 3	0	(scan near directory) same (increment near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52

## EAST Search History

S20 4	220	(scan search near directory) same (increment near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S20 5	0	((scan or search) near directory) with (increment near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S20 6	89	(scan search near directory) with (increment near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S20 7	132	(scan search near directory) with ((increment or increase) near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S20 8	0	((scan or search) near directory) with ((increment increase) near count)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S20 9	14	(count\$3 determin\$3) with number adj2 child adj2 nodes with (storage server system folder directory)\	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S21 0	491	(count\$3 determin\$3) with number adj2 nodes with (storage server system folder directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S21 1	14	(count\$3 determin\$3) with number adj2 child adj2 nodes with (storage server system folder directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S21 2	153	(count\$3 determin\$3) adj2 number adj2 nodes with (storage server system folder directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S21 3	21	(count\$3 determin\$3) adj2 number adj2 nodes adj2 (storage server system folder directory)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52

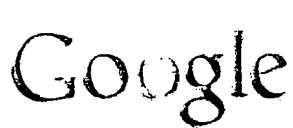
## EAST Search History

S21 4	13	scan\$4 adj3 server adj3 directory	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S21 5	5	scan\$4 adj3 directory adj3 nodes	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S21 6	0	(2002/0049749).CCLS.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2007/03/16 17:52
S21 7	1	("20020049749").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2007/03/16 17:52
S21 8	81	directory near2 thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S21 9	4	directory near2 thread with scan	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S22 0	3	directory near2 thread with read	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S22 1	96	file near2 thread with read	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S22 2	8	file near2 thread with scan	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S22 3	21	directory adj thread	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52



## EAST Search History

S22 4	15	thread with scanning with server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S22 5	33	thread with scan\$4 with server	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S22 6	78	thread with scan\$4 with storage	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/16 17:52
S22 7	20	("20020049782" "20020147805" "20020175938" "20040098383" "20040122936" "20040133606" "20040143608" "20040196970" "20040205143" "20050086192" "20050102289" "20050108474" "6199082" "6430611" "6563521" "6571257" "6801903" "7013323" "7054927" "7080277").PN.	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	OR	ON	2007/03/21 14:04

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directory scan summary concurrent OR simulti

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## Patents

Patents 1 - 10 on **directory scan summary concurrent OR simultaneous**. (0.33 seconds)

### Data storage library array with log-structured file system which allows **simultaneous** write and garbage collection

US Pat. 5530850 - Filed Oct 25, 1993 - International Business Machines Corporation

When a read is performed, the **directory** is consulted to find the current location... , a "garbage collection" process is run in the background to **scan** the ...

### Method for reducing **directory** writes and latency in a high performance, **directory-based**, coherency protocol

US Pat. 6654858 - Filed Aug 31, 2000 - Hewlett-Packard Development Company, L.P.

**Directory-based** coherency computer systems are no exception; reducing the latency involved in such systems is desirable. BRIEF SUMMARY OF ...

### Scalable **directory** based cache coherence protocol

US Pat. 6918015 - Filed Mar 31, 2003 - Hewlett-Packard Development Company, L.P.

31, 2000, "An Efficient Address Interleaving With **Simultaneous** 35 Multiple ...

BRIEF SUMMARY OF THE INVENTION The problems noted above are solved in large ...

### Scalable **directory** based cache coherence protocol

US Pat. 6633960 - Filed Aug 31, 2000 - Hewlett-Packard Development Company, L.P.

31, 3Q 2000, "An Efficient Address Interleaving With **Simultaneous** Multiple ...

BRIEF SUMMARY OF THE INVENTION The problems noted above are solved in large ...

### Efficient write-watch mechanism useful for garbage collection in a computer system

US Pat. 7065617 - Filed Apr 20, 2004 - Microsoft Corporation

Another type of garbage collection is **concurrent** in 45 nature, ... locations that have been written into so it can **scan** for the cross-generation pointers, ...

### Automatic system for providing telephone number information service

US Pat. 4104717 - Filed Aug 17, 1976

No., filed Further, I have found that **simultaneous** coincidence of filed Sept.... a statistically uneven **directory** are entered, in digitally encoded form, ...

### Efficient write-watch mechanism useful for garbage collection in a computer system

US Pat. 6738875 - Filed Jul 31, 2000 - Microsoft Corporation

Another type of garbage collection is **concurrent** in nature, ... locations that have been written into so it can **scan** for the cross-generation pointers, ie, ...

### MODULAR COMPUTER SYSTEM

US Pat. 3419849 - Filed Nov 30, 1962

The next thing to be done is to **scan** the named objects in core to determine if ... request then attempts to find in the system **directory** the file **directory**. ...

### Ultrasonic image data formats


US Pat. 5636631 - Filed May 12, 1992 - Advanced Technology Laboratories, Inc.

1 which contains basic may contain structural information (B-**scan** data) as well... post processing and the **simultaneous** display 60 in a sequence of frames. ...


REAL AOOR VIRTUAL AODR CMPR VIRT ADDR TO CPU VIRT ADDR CMPR RL ADDR TO  
BFR ADDR

US Pat. 3761881 - Filed Jun 30, 1971

Thus, a **scan** of the virtual oriented buffer is required on such de-letes. ...  
by the CPU is used to cause **simultaneous** access to the buffer **directory** (which ...

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directory scan summary concurrent OR simul

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